

**GRAHAM GREENE
CAA
WIDEBODY SIMULATOR
PROJECT MANAGER**

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**CAA EVACUATION RESEARCH STARTED
IN 1985 AFTER THE MANCHESTER
BOEING 737 ACCIDENT**



FIRST RESEARCH FACILITY



SECOND RESEARCH FACILITY



RESEARCH RESULTS

REQUIREMENT FOR WIDEBODY SIMULATOR

- **Twin Deck**
- **Fully Flexible**

CRANFIELD LARGE CABIN EVACUATION SIMULATOR

- The simulator has two decks. The lower deck sill height is 5 metres and the upper deck sill height is 8 metres.
- The lower deck can simulate wide bodied aircraft and seat up to 500 passengers.
- The upper deck can simulate the upper deck of A380 or 747 and can seat up to 100 passengers.

CRANFIELD LARGE CABIN EVACUATION SIMULATOR

- The modular construction enables overall size and cabin width to be varied.
- Modular construction also means that size, location and distance between exits can be altered.
- The interior features such as seating configuration, bulkheads and aisle widths can all be changed.

CRANFIELD LARGE CABIN EVACUATION SIMULATOR

- Stairs provide internal access to the upper deck, again dimensions can be varied.
- Observation stations are used to monitor video cameras and play flight briefing information.
- The simulator also includes an upper deck slide with unique features.

POSSIBLE FUTURE PROJECTS

- Passenger use of upper deck slide.
- The design of stairs for use by passengers in an emergency situation.
- The number and location of flight attendants on very large transportation aircraft.

POSSIBLE FUTURE PROJECTS

- Passenger management by flight attendants on very large transportation aircraft.
- Minimum seat pitch and aisle width for very large transportation aircraft.
- Size and location of exits on very large transportation aircraft.